

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P880833

Luminaire Tested: **24CZ2-35VHE-RDP-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35VHE-RDP-B2750-W2D-3000K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

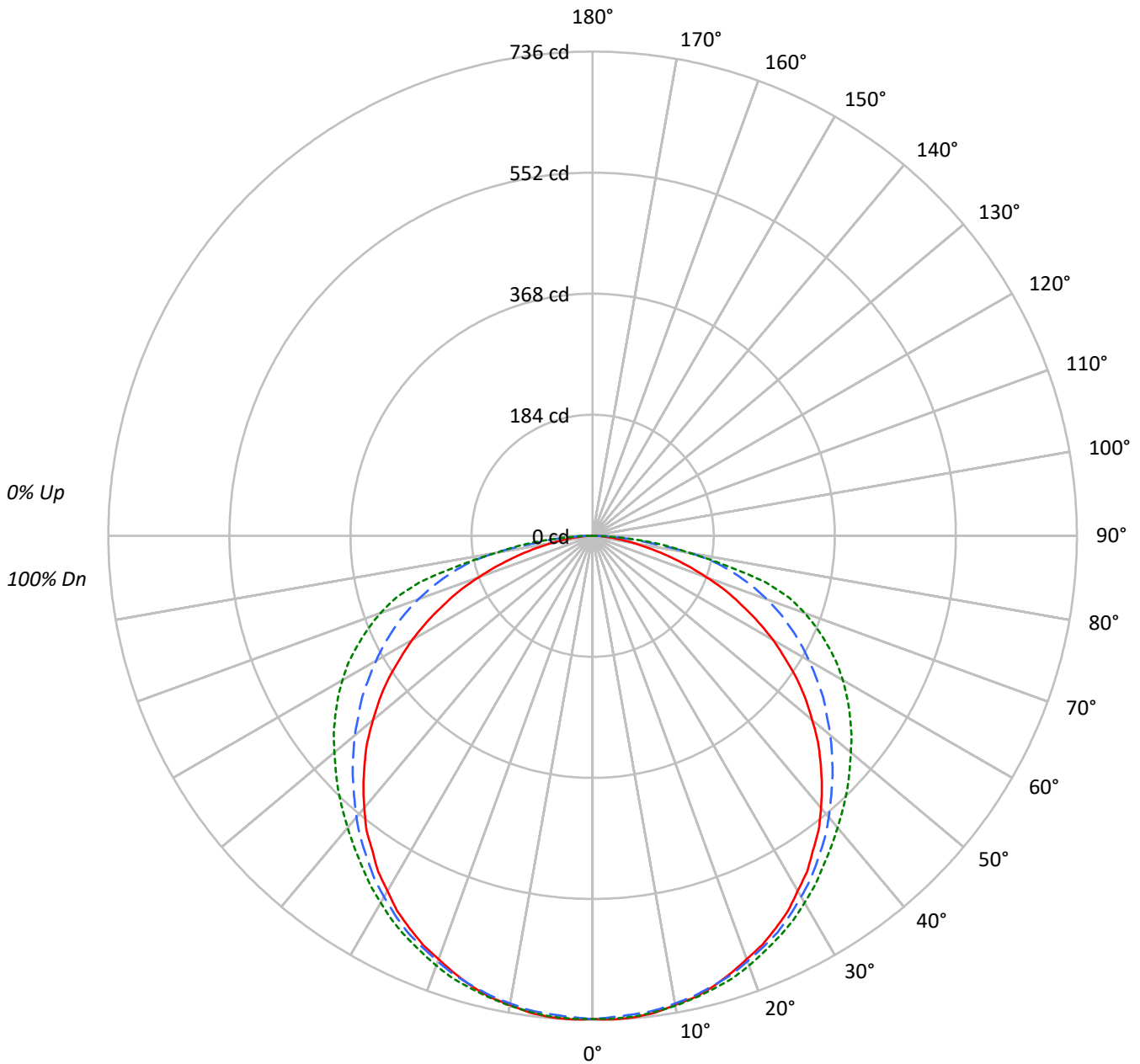
Lumens per Lamp: N/A  
Luminaire Lumens: 2336.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 27  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1037	1037	1037
5°	1041	1034	1039
10°	1038	1035	1040
15°	1036	1034	1041
20°	1029	1034	1044
25°	1025	1036	1047
30°	1016	1033	1050
35°	1006	1030	1054
40°	995	1029	1067
45°	978	1029	1091
50°	956	1035	1125
55°	932	1052	1175
60°	893	1073	1239
65°	836	1110	1316
70°	760	1162	1415
75°	644	1226	1479
80°	509	1233	1196
85°	376	938	1051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	3.0
10°-20°	200.6	8.6
20°-30°	306.7	13.1
30°-40°	374.9	16.0
40°-50°	399.6	17.1
50°-60°	382.1	16.4
60°-70°	323.6	13.9
70°-80°	217.5	9.3
80°-90°	61.4	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	576.9	24.7
0°-40°	951.8	40.7
0°-60°	1733.5	74.2
0°-90°	2336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	735	734	730	734	734	70
15°	709	709	708	714	713	200
25°	658	660	665	671	672	303
35°	584	589	598	609	612	366
45°	490	498	516	538	547	378
55°	379	393	428	461	477	337
65°	250	276	332	376	394	248
75°	118	161	225	263	271	127
85°	23	48	58	63	65	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	734.6	734.6	734.6	734.6	734.6
2.5°	735.8	735.8	732.3	734.6	734.6
5°	734.6	733.5	730.0	733.5	733.5
7.5°	731.1	730.0	727.6	731.1	730.0
10°	724.2	724.2	721.9	725.4	725.4
12.5°	718.4	717.2	716.1	720.7	719.6
15°	709.1	709.1	707.9	713.7	712.6
17.5°	697.5	698.7	699.9	704.6	705.7
20°	684.8	687.1	688.3	695.3	695.3
22.5°	673.2	674.3	676.7	683.6	683.6
25°	658.2	660.4	665.1	670.8	672.1
27.5°	643.0	644.2	650.0	658.2	659.3
30°	623.3	626.8	633.8	643.0	644.2
32.5°	606.0	609.4	617.5	626.8	629.2
35°	583.9	588.6	597.9	609.4	611.8
37.5°	564.3	567.6	579.3	592.1	595.5
40°	540.0	546.8	558.5	573.5	579.3
42.5°	515.6	522.6	536.5	556.1	563.0
45°	490.1	498.3	515.6	537.7	546.8
47.5°	464.7	474.0	493.6	519.1	529.5
50°	435.6	447.3	471.6	500.6	512.2
52.5°	407.9	421.8	448.4	480.9	495.9
55°	378.8	392.7	427.6	461.2	477.4
57.5°	346.4	364.9	403.2	441.5	458.8
60°	316.4	333.7	380.1	421.8	439.1
62.5°	283.9	307.1	356.9	400.9	418.3
65°	250.3	275.8	332.5	376.5	394.0
67.5°	220.2	248.0	308.2	352.2	369.5
70°	184.2	218.9	281.6	325.5	342.9
72.5°	150.6	188.8	253.8	296.7	312.8
75°	118.1	161.0	224.8	263.1	271.2
77.5°	88.1	133.2	194.6	210.9	205.1
80°	62.6	106.7	151.7	143.6	147.1
82.5°	40.6	81.1	93.9	106.7	110.0
85°	23.2	47.5	57.9	62.6	64.9
87.5°	10.4	17.4	23.2	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)